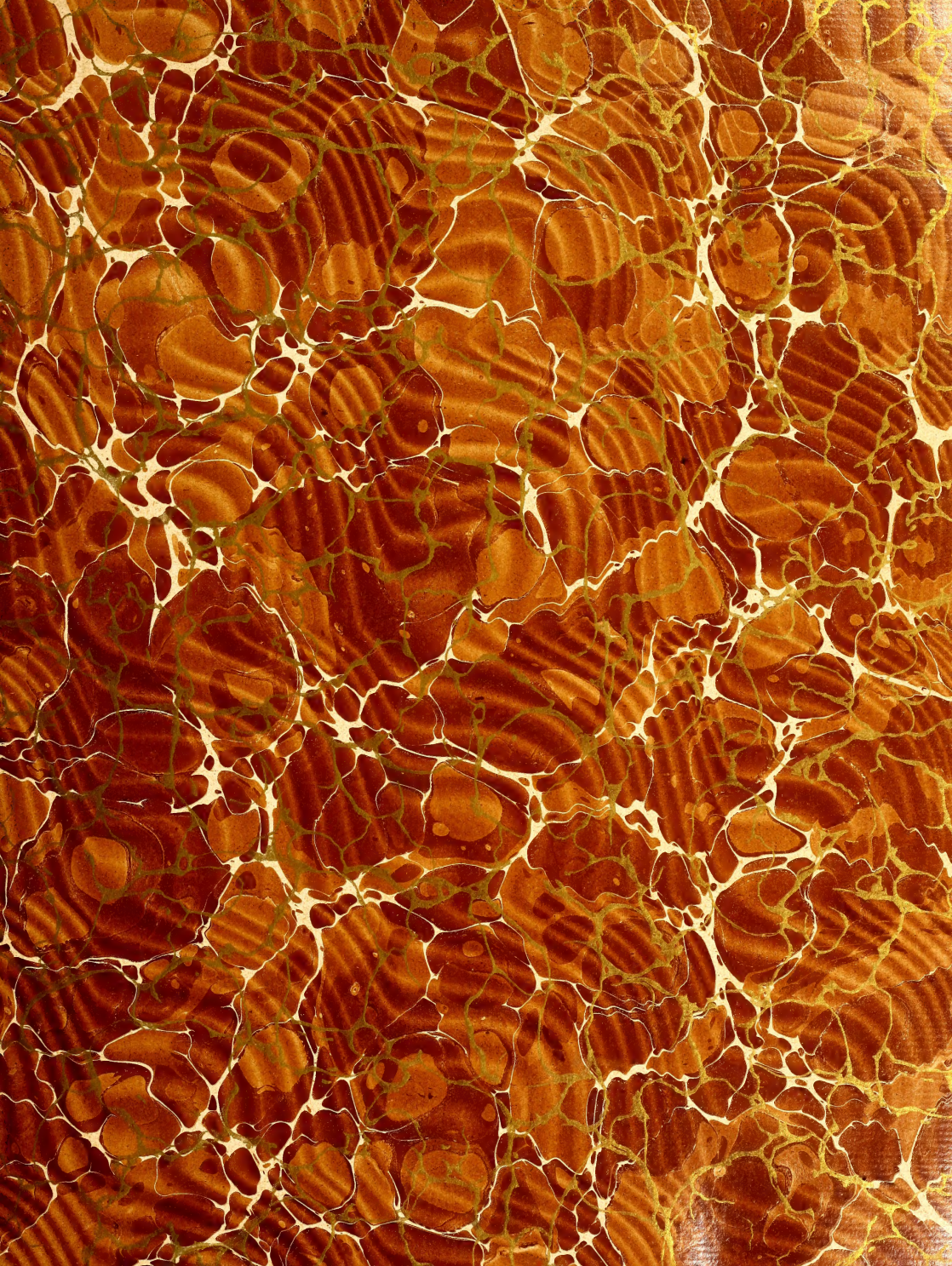




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THE BIRDS
OF
NORTH AMERICA;

THE DESCRIPTIONS OF SPECIES BASED CHIEFLY ON THE COLLECTIONS
IN THE
MUSEUM OF THE SMITHSONIAN INSTITUTION.

BY
SPENCER F. BAIRD,
ASSISTANT SECRETARY OF THE SMITHSONIAN INSTITUTION.

WITH THE CO-OPERATION OF
JOHN CASSIN,
OF THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA.

AND
GEORGE N. LAWRENCE,
OF THE LYCEUM OF NATURAL HISTORY OF NEW YORK

With an Atlas of One Hundred Plates.

ATLAS.

PHILADELPHIA:
J. B. LIPPINCOTT & CO.
1860.

P R E F A C E .

THE present Atlas has been prepared for the two-fold purpose of completing the series of illustrations of the Birds of North America, and to give accurate and easily recognized figures of the numerous hitherto unknown birds described in the first volume. It contains figures of all birds inhabiting the United States which have not been given by former American authors, in connexion with whose works it continues and concludes, as far as possible, to the present time the pictorial representation of all North American birds. In the accompanying volume of text will be found descriptions of all the known birds of the United States; their arrangement in the genera and families of modern zoologists; their geographical distribution; and, it is believed, everything necessary to a complete and thorough knowledge of this favorite department of the natural history of our country.

In 1843 the distinguished ornithologist, Mr. Audubon, brought to a completion the second and last edition of his great work on the Birds of North America, in which are given faithful and accurate representations of nearly five hundred species. This elaborate work included all the birds known to that celebrated author as inhabiting the continent of America north of Mexico.

In 1853 Mr. Cassin commenced the publication of a work entitled "Illustrations of the Birds of California, Texas, Oregon, and British and Russian America: intended to contain descriptions and figures of all North American birds not given by former American authors, and a general synopsis of North American Ornithology." Philadelphia: J. B. Lippincott & Co. The first series, containing plates of fifty species not given by Audubon, was completed in 1855, and has not been extended, having been superseded by the present work.

Many of the birds of the United States, not included in the works of the preceding or other American authors, having been collected by the several parties for the Survey of a Railroad Route to the Pacific Ocean, and of the Boundary between the United States and Mexico, as mentioned in the preface to volume I of this work, they were figured in the reports of these expeditions published by Congress under the direction of the War and Interior Departments. All of these birds appear in the present volume, but, in almost every instance, redrawn from better and more characteristic specimens. Of the one hun-

dred plates, however, of this volume, about one-half appear for the first time, having been prepared expressly for the present work. Many of the latter represent birds of Eastern North America.

As already stated, the work of Mr. Audubon contains figures of somewhat less than five hundred species of North American birds; that of Mr. Cassin contains fifty species. In the present volume will be found one hundred and forty-eight species, nearly all of which are now represented for the first time in any work on American ornithology. The three works together include illustrations of very nearly all the known birds of North America. A few species only are wanting, chiefly of Russian America and other remote localities, of which no specimens are preserved in American museums. All are carefully described, however, in the preceding volume.

The original specimens of a large majority of the species figured in the present volume are in the museum of the Smithsonian Institution, and have been described and figured by permission of the Secretary. The collections of the Academy of Natural Sciences of Philadelphia, and of the Boston Natural History Society, have also furnished valuable and interesting types for the same purpose, kindly placed at our disposal.

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o *Syrnium occidentale*, XANTUS.—Proceedings Phila. Acad. Nat. Sciences, 1859, 193.

SP. CHAR.—A little smaller than *S. nebulosum*; general color liver brown, the feathers barred everywhere, even on the flanks. Axillars and under wing and tail coverts banded transversely with white, the bands towards and on the head are contracted into rounded spots.

General appearance that of *S. nebulosum*. Prevailing color light liver brown, each short feather with two transverse bars of white, the basal one tinged with rufous yellow; the subterminal pure white and not generally extending to the edges of the feathers. These bars have a marginal suffusion of brown darker than the ground color. On the top of the head and neck the subterminal bar exhibits a tendency to contraction into rounded or cordate spots, and in other places to a median

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interruption along the shaft. On the scapulars, axillars, and other elongated feathers there are several white bars. The facial disk is grayish, obscurely barred with brown; the posterior margin of the ear is uniform liver brown, then becoming banded with white. The longest quills and tail feathers show about 7 to 9 clouded transverse light bars, one of these at the end of the feather; the bars on the inner and outer margins are quite white, especially towards the base of the feather, elsewhere they are mottled yellowish brown or brownish yellow; the legs are dirty yellowish, with obscure and rather transverse mottlings of brown. The bill is greenish yellow; the iris gamboge; the claws horn color; the toes are thickly feathered to within two scutellae of the base of the claws. The fourth quill is longest, the fifth and then the third a little shorter, the second between the sixth and seventh; the first rather shorter than the eighth.

Length of male 18 inches; extent 40; wing 13; tail $8\frac{1}{2}$; tarsus about 2.

This species, with a general resemblance to the *Syrnium nebulosum*, is of rather smaller size, and readily distinguished by the entire absence of any of the longitudinal brown stripes so conspicuous on the belly, flanks, and lower tail coverts of the latter species; these regions being barred transversely with white and brown. The white bars on the feathers are much less continuous and regular, and on the neck and head are restricted to rounded spots instead of forming regular zones. The under wing coverts are banded transversely instead of being uniform yellowish white. The bill is less pure yellow.

A single specimen (original number 1858) was collected at Fort Tejon, March 6, 1858

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© *Helminthophaga virginiae*, BAIRD.—Similar in general appearance to *H. ruficapilla*. Top and sides of head, back, and wings light ashy plumbeous, with an almost imperceptible wash of olivaceous green; quills and tail feathers brown, edged with pure ashy plumbeous; the latter indistinctly and narrowly margined with whitish internally and at the end. Rump and upper and lower tail coverts bright yellow (with a greenish tint above) in vivid contrast to the rest of the body. Crown with a concealed patch of orange brown. Rest of under parts brownish white with indications of yellow along the median region, (perhaps entirely yellow when mature.) Inside of wings and axillars whitish. A white ring around the eye. Length 5 inches; extent 7½; wing 2½. No. 10719. Fort Burgwyn, N. M. Collected by Dr. W. W. Anderson, U. S. A.

† *Ibis guaranae*, SHAW.—This species differs from *Ibis ordii*, in longer legs, and an entire absence of chestnut red, which is replaced by bronzed green. No specimens in the Smithsonian collection show any gloss on the head and neck.

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Brown & Co. Lith. & Col. Philada.

FALCO FEMORALIS



BUTEO ELEGANS-(Adult)

Bowen & Co. Lith. & Col. Philada



BUTEO ELEGANS-(*Young*)

Bowen & Co. Lith. & Col. Philada.





Bowen & C^o Lith. & Col. Philada

1. PASSERCULUS ALAUDINUS. 2. PEUCAEA CASSINII.



Bowen & Co. Lith. & Col. Philada.

MYIARCHUS MEXICANUS



TRYNGITES RUFESCENS

Bowen & C^o Lith. & Col. Philada



Bowen & Co. Lith. & Col. Philada.

STREPSILAS MELANOCEPHALA.







Bowen & C^o Lith. & Col. Philada.

PODICEPS CALIFORNICUS.



Bowen & C^o Lith. & Col. Philada

PODYLIBUS LINEATUS.



Bowen & Co. Lith. & Col. Philada.

PHALACROCORAX PENICILLATUS.



FALCO NIGRICEPS



BUTEO SWAINSONII.



Bowen & Co. Lith. & Col. Philada

BUTEO SWAINSONII.



Bowen & C^o Lith. & Col. Philada

BUTEO CALURUS



1. B. FULIGINOSUS. 2. B. OXYPTERUS.



BUTEO COOPERII.

Bowen & C^o Lith. & Col. Philada



Bowen & C^o Lith & Col. Philada

CHORDEILES HENRYI.

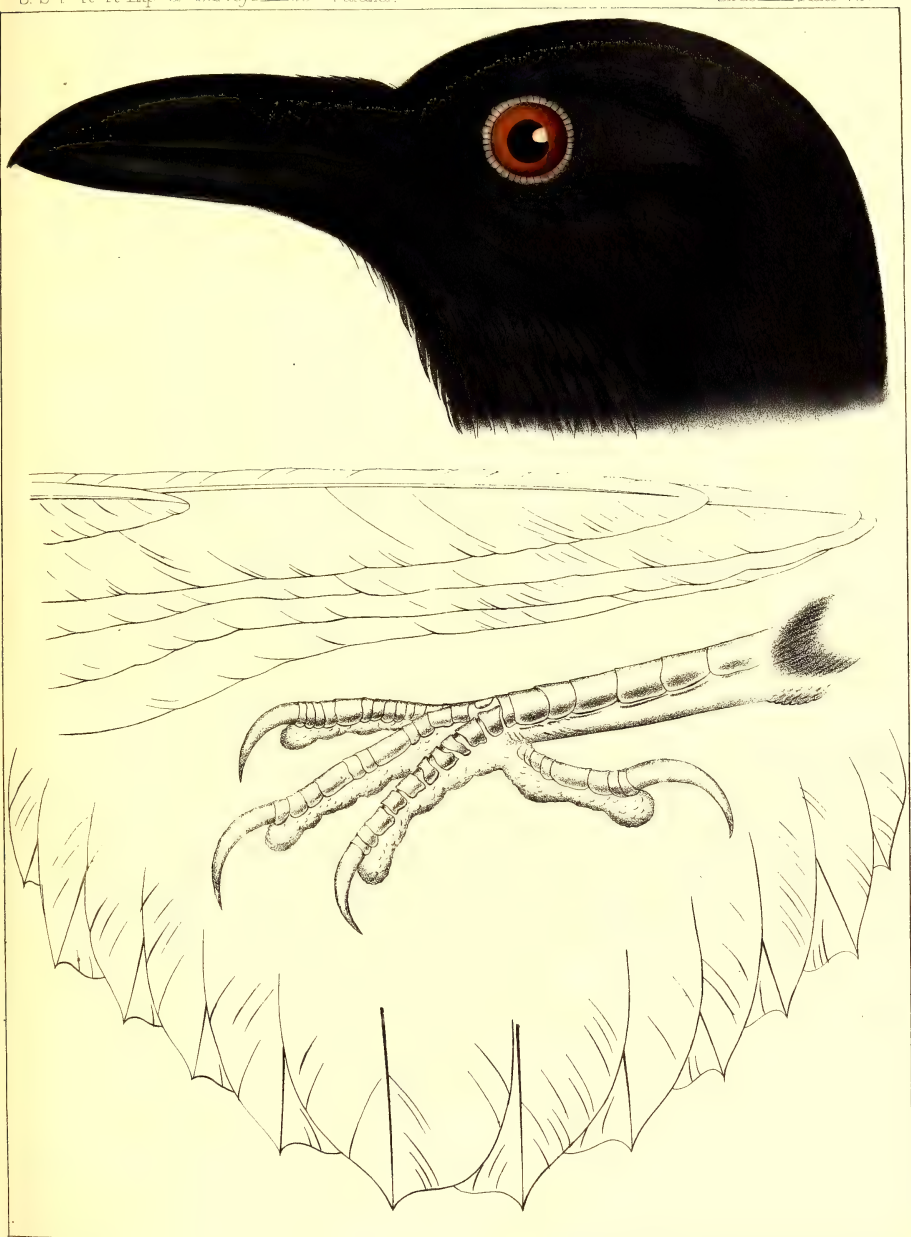


Bowen & C^o Lith & Col Philada

1. PANYPTILA MELANOLEUCA 2. CHAETURA VAUXII



ATTHIS COSTAE.



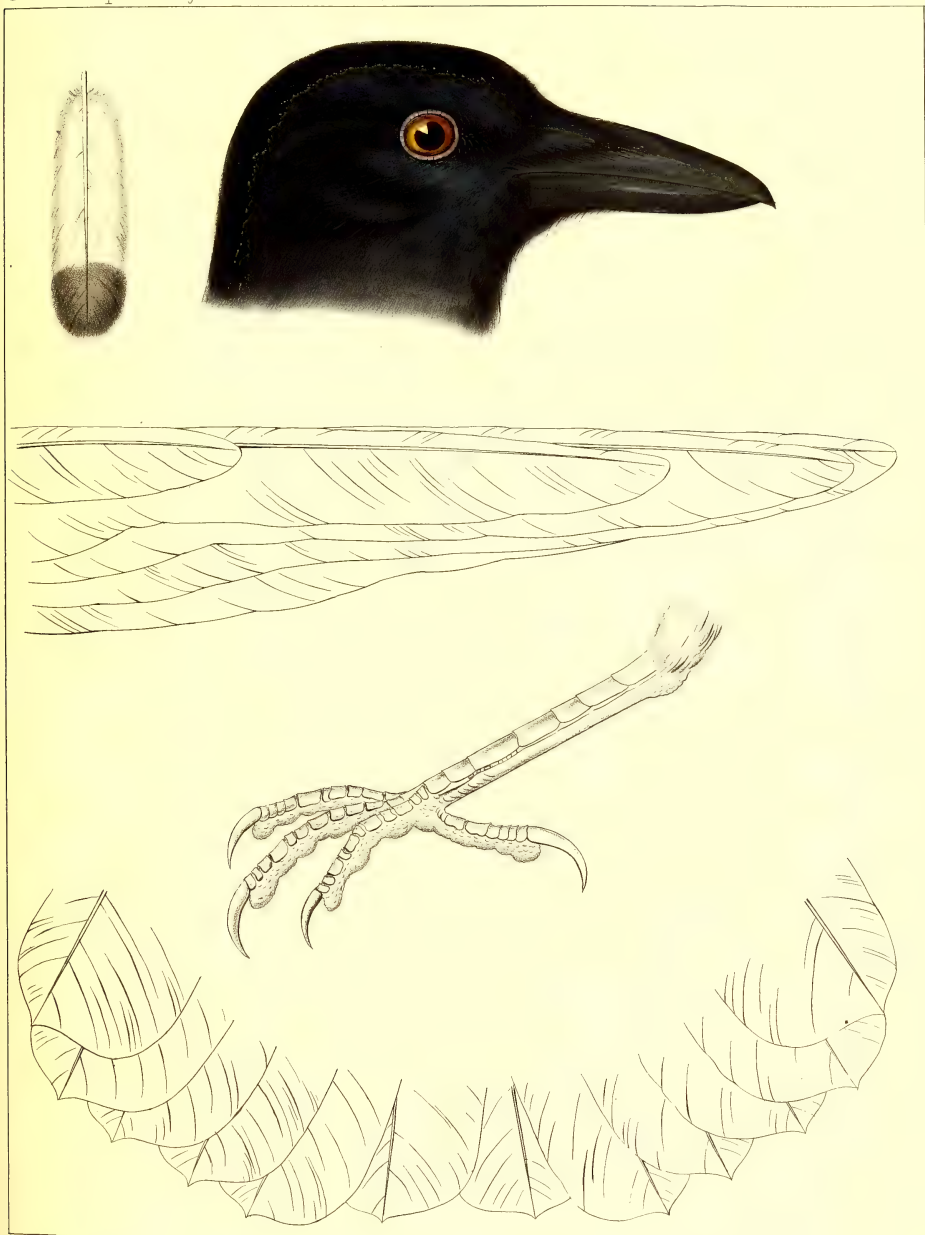
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CORVUS CALLOTL.



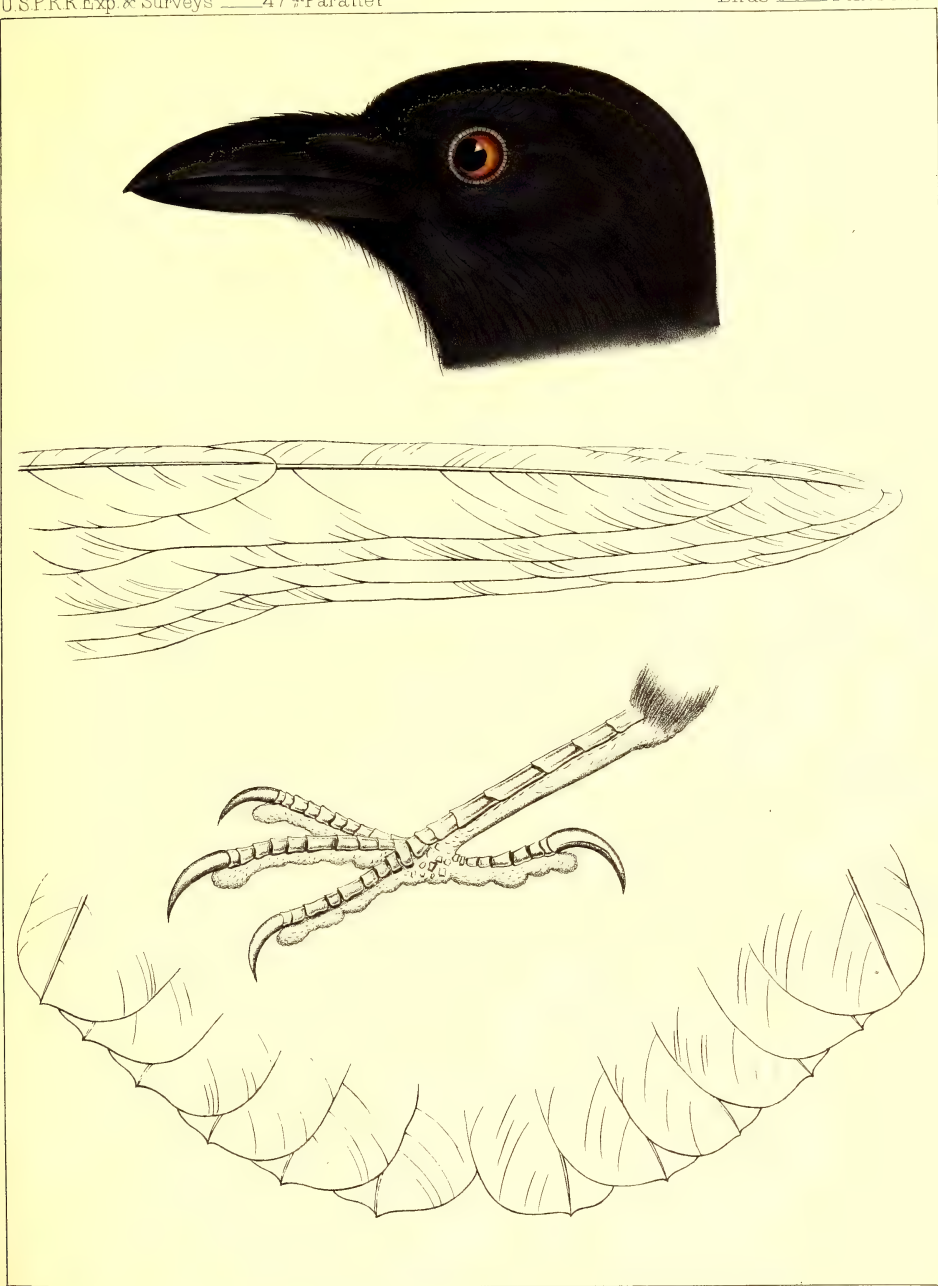
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CORVUS CARNIVORUS



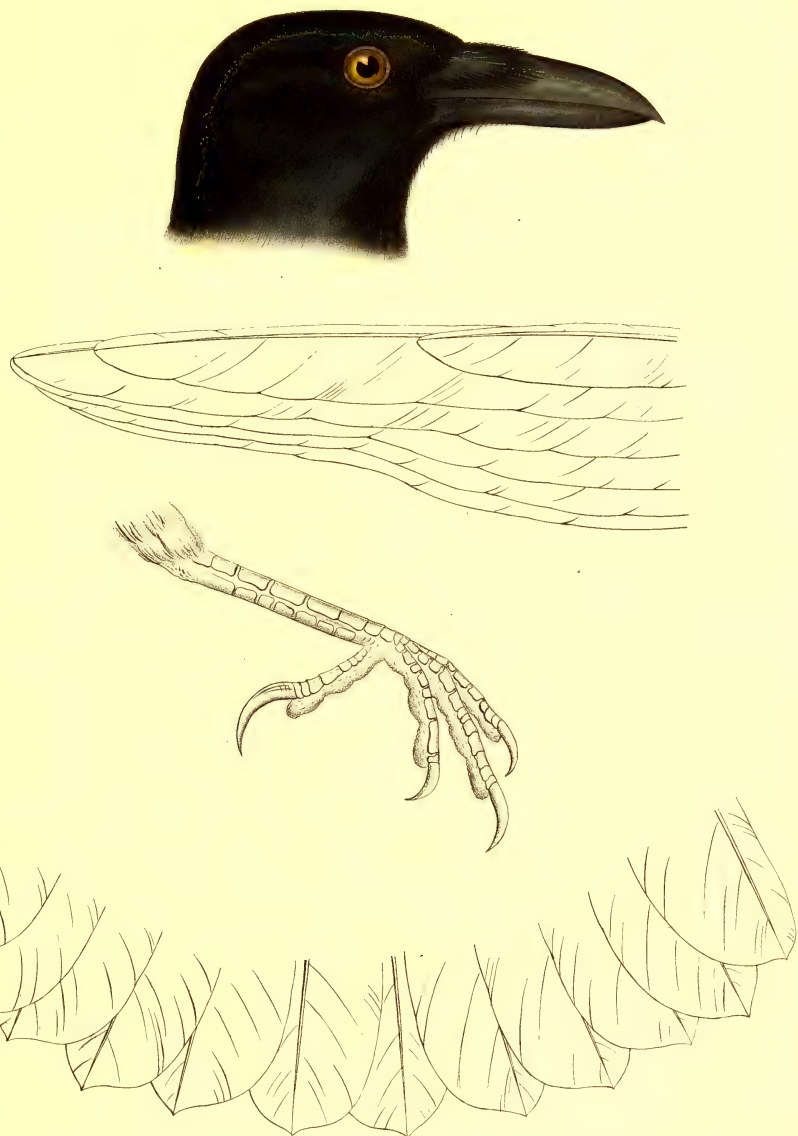
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CORVUS CRYPTOLEUCUS.

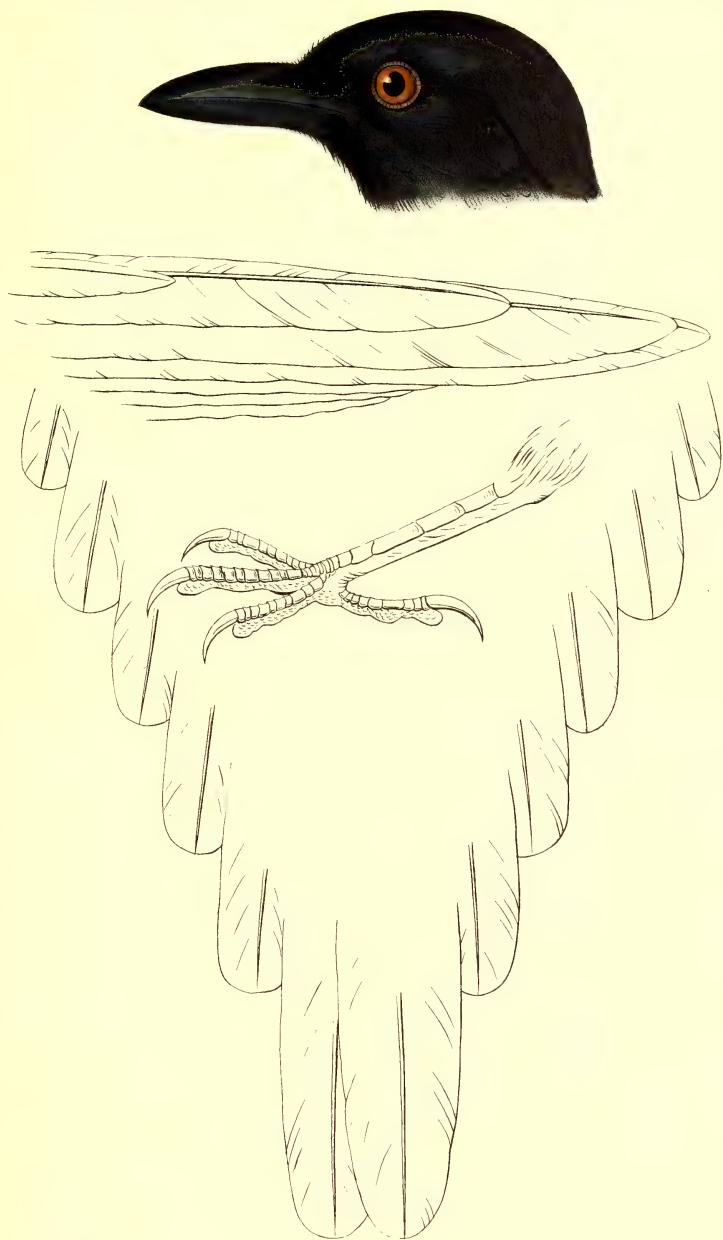


Bowen & Co. Lith. & Col. Philada

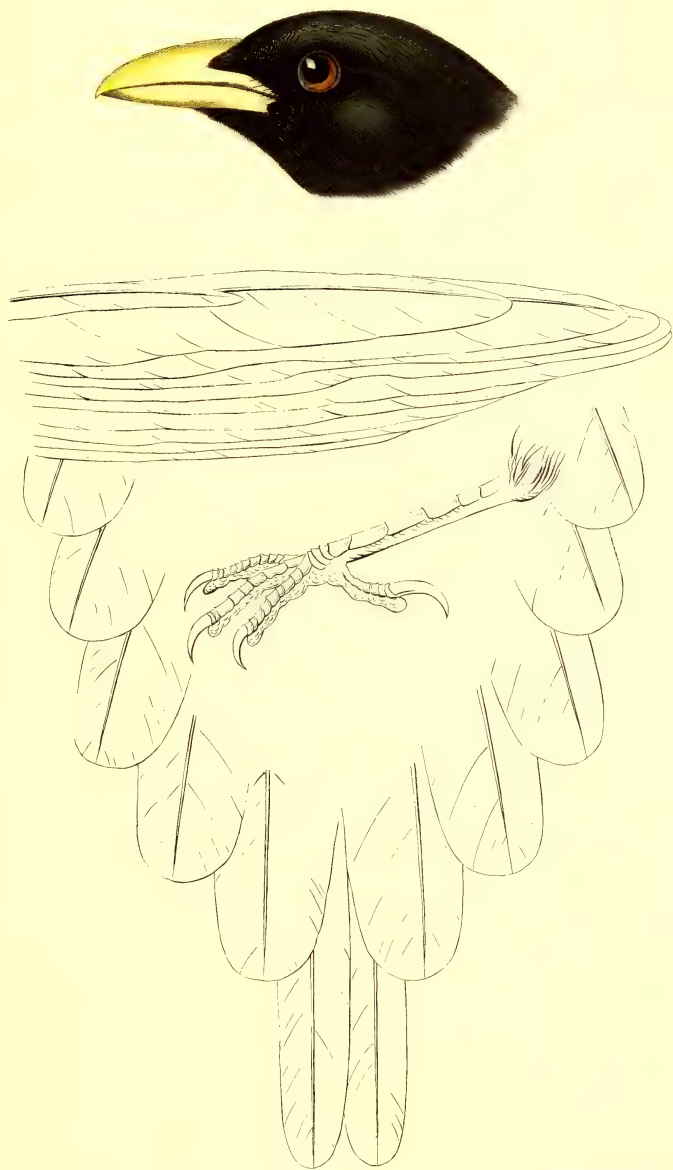
CORVUS AMERICANUS



CORVUS CAURINUS



PICA HUDSONICA



Bowen & Co. del. & col. Fainton.

PICA NUTTALLII.



1. CARPODacus CASSINI. 2. MELOSPIZA FALLAX.

1. CARPODacus CASSINI. 2. MELOSPIZA FALLAX.



Fig. 2



Fig. 1.



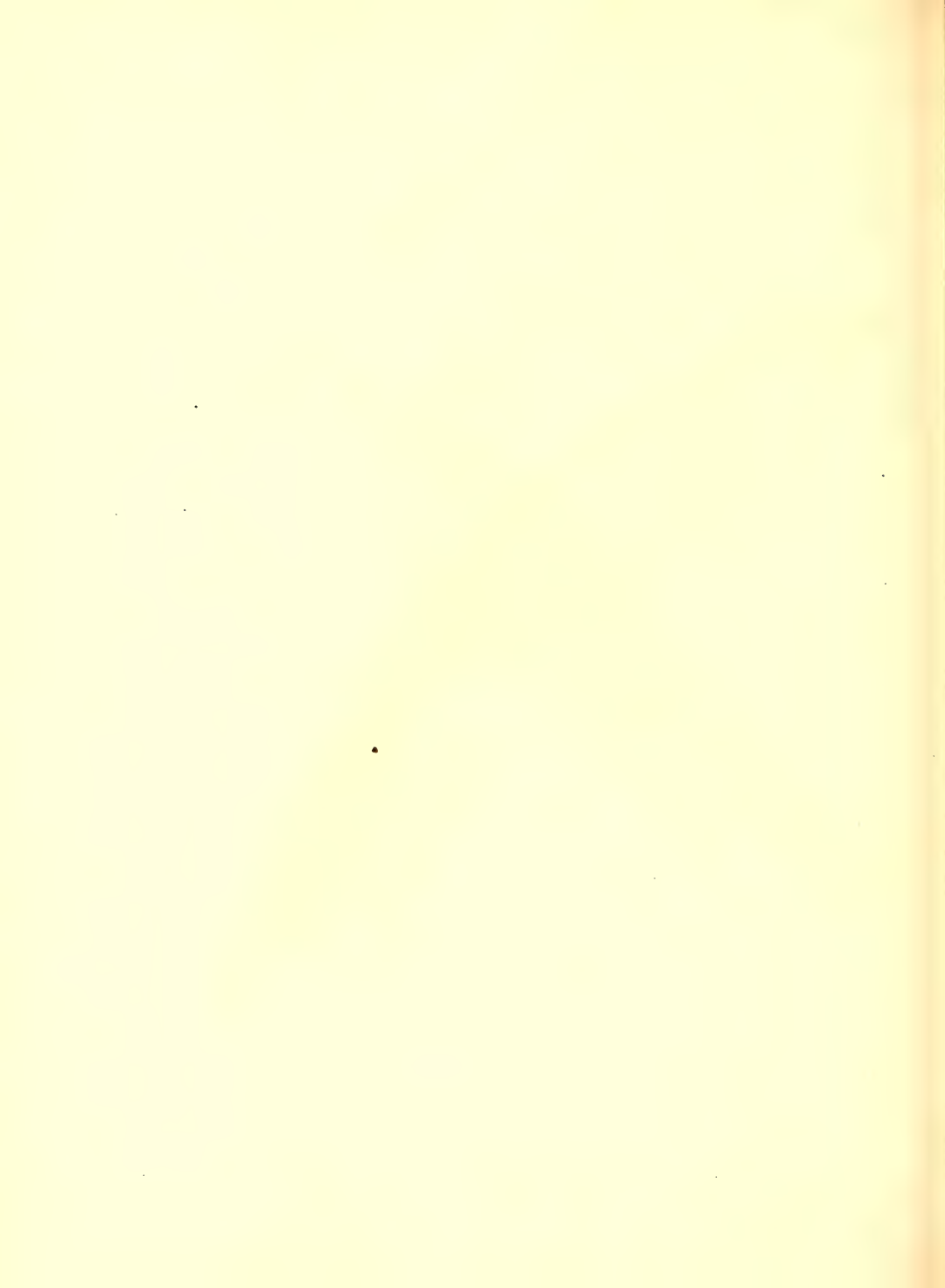
Bowen & C^o Lith. & Col. Philada.

PIPILO MESOLEUCUS.



Bowen & Co. Lith. & Col. Philada

PIPILO ABERTI.



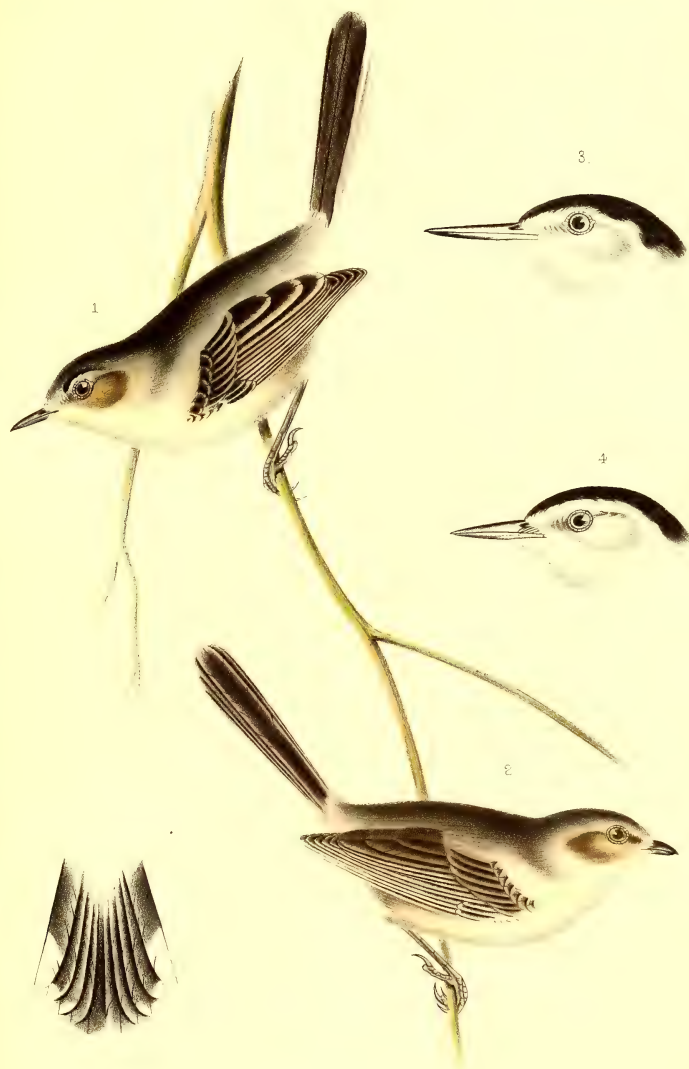


Bowen & C^o Lith. & Col. Philada.

PYRANGA HEPATICA.



QUISCALUS BARITUS.



Bowen & Co lith. & col Philade

1. POLIOPTILA PLUMBEA. 2. PSALTRIPARUS PLUMBEUS.

3. SITTA ACULEATA. 4. SITTA CAROLINENSIS



Bowen & C^o Lith. & Col. Philada

1. MELANERPES WILLIAMSONII. 2. ICTERIA LONGICAUDA.



Bowen & Co. Lith. & col. Philada.

SPHYRAPICUS NUCHALIS. 1 Male. 2 Female.



Bowen & Co. Lith. & Col. Philada.

CENTURUS UROPYGIALIS.



Gowen & C^o Lith & Col. Philada

GRUS FRATERCULUS.



PODICEPS OCCIDENTALIS.

Bowen & Co. Lith. & Col. Philada.





1 PICUS PUBESCENS (DOWNY WOODPECKER)



Fig 1

Fig 2.



1. *SELASPHORUS PLATYCEPHALUS* 1 Male 1 Female
 2. *SELASPHORUS PLATYCEPHALUS* 1 Male
 3. *SELASPHORUS PLATYCEPHALUS* 1 Male



CHORDEILES TEXENSIS.





CERYLE AMERICANA — 1 Adult. 2 Young





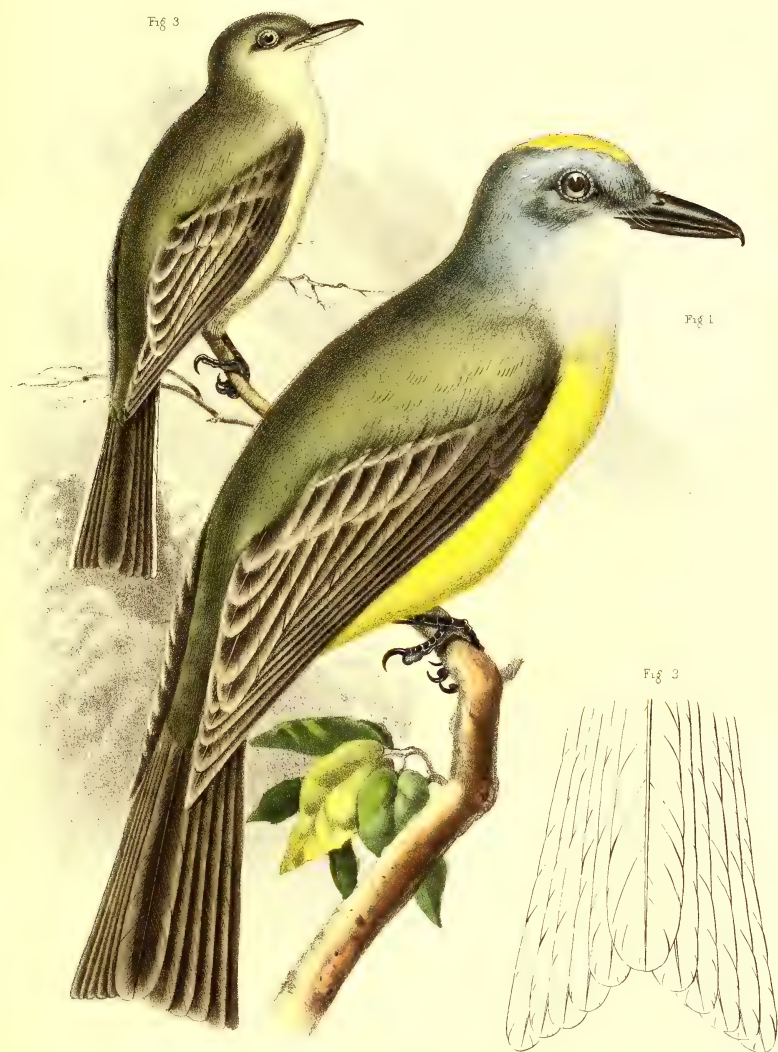
MOMOTUS COERULEICEPS.



- | | | |
|---|-----------------------|--------|
| 1 | PACHYRAMPHUS AGELAIUS | Male |
| 2 | PACHYRAMPHUS AGELAIUS | Female |
| 3 | GEOTHTYPS TRICHAS | Female |



TYRANNUS VOCIFERANS.



1 TYRANNUS COUCHII—2 TYRANNUS MELANCHOLICUS, Tail
3. EMPIDONAX OBSCURUS.





LEUCOSTOMA CURVIROSTRIS

Lith. et col. E. E. E. & Co. Plots.



TOXOSTOMA LONGIROSTRIS.



1. *LOPHOPHANES WOLLWEBERI* 2. *AEGITHALUS PHOENICEUS* 3. *AEGITHALUS PHOENICEUS*



Fig 1

Fig 3

Fig 2

CHRYSEMIDIS MEXICANUS_2. SPERMOPHILA MORELETII (Male)
3. SPERMOPHILA MORELETII (Female)



1. SPIZELLA ATRIGULARIS
2. EMBERIZAGRA BREVIRGATA



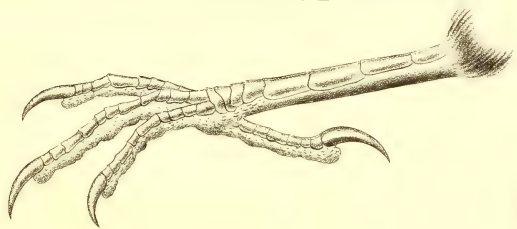
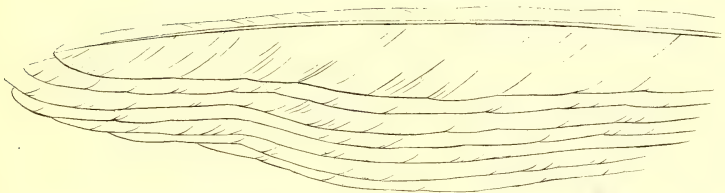
1. CYANOLOXIA PARVIFRONS Male. 2. SPIZA ZENAE Male.



Fig.



TICTERUS PARISORUM 2 ICTERUS WAGLERI.



QUISCALUS LINCOLNII



CHALCOPHAPS WOODHOUSEI



1 CYANOCITTA SORDIDA. — 2 CYANOCITTA ULTRAMARINA.



QUAIL FLAVIROSTRIS

Lith. et col. Bowen & Co.



ORTYX TEXANUS.



1. DENDROCYGNA FULVA. 2. D. AUTUMNALIS



ASTURINA NITIDA. 1. Adult. 2. Young

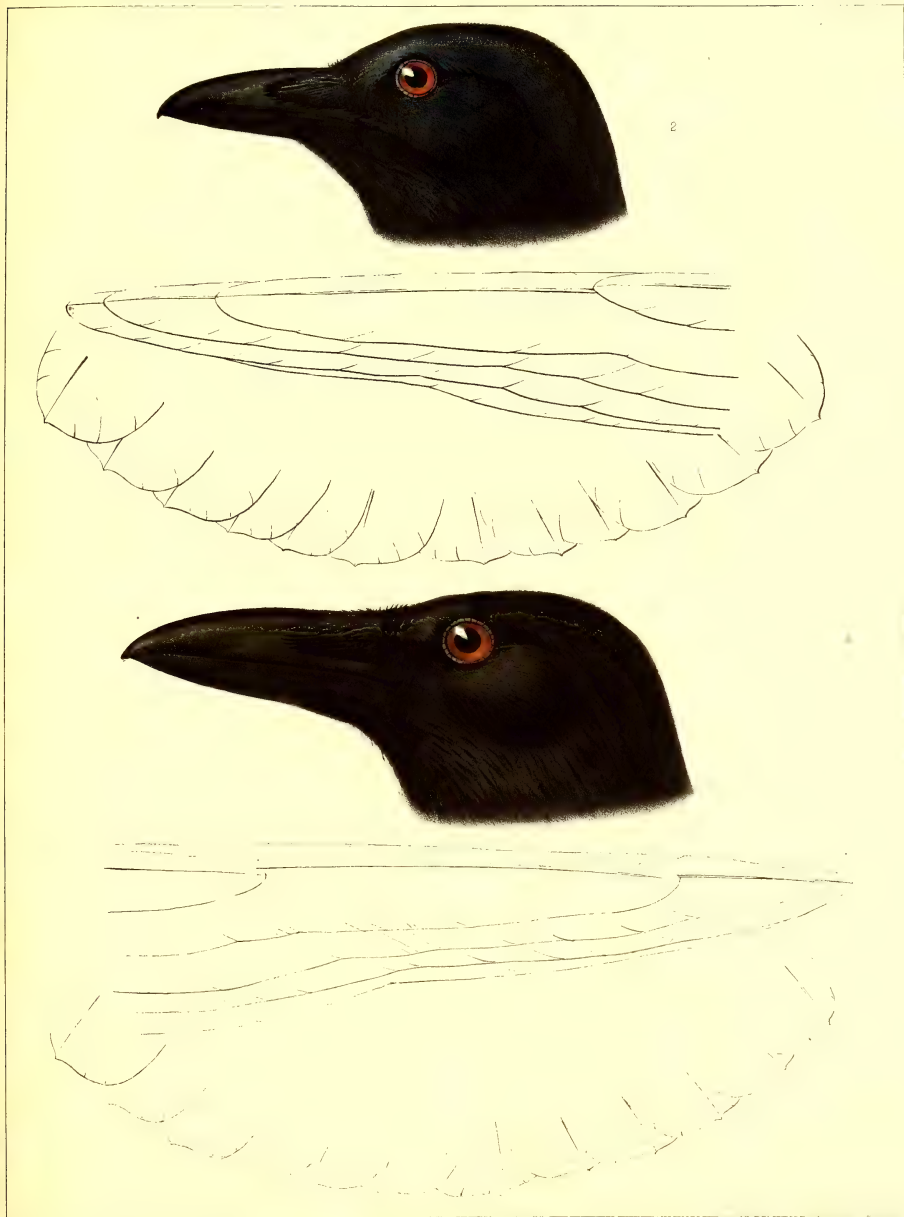


ROSTRHAMUS SOCIABILIS. 1 Adult. 2. Young



Bowen & Co Lith & col. Philada

SYRNIUM OCCIDENTALE.



1. CORVUS FLORIDANUS. 2. C. OSSIFRAGUS



1. *PSILORHINUS MORIO*. 1 Male. 2. Variety with yellow bill



Illustrated by J. J. Audubon

1. ZONOTRICHIA GAMBELII. 2. Z. LEUCOPHRYS. 3. PASSERELLA SCHISTACEA. 4. P. MEGARHYNCHUS.



1. MELOSPIZA HEERMANNI & M. GOULDII



Painted by J. Gould.

1. AMMODROMUS SAMUELIS 2. EUPHONIA PLENTISSIMA, M. J. (Barnes)



Bowen, & Co lith. & col. Philada

1. JUNCO CANICEPS. 2. CARPODACUS CALIFORNICUS, Male & Female.



J. J. Aud. & Co. Lith. & Col. Boston.

PIPILO MEGALONYX.



1. LEUCOSTICTE ARCTOUS 2. PLECTROPHANES MELANOMUS



Bowen & Co lith & col Philade

1 COLLYRIO ELEGANS. 2. C. EXCUBITOROIDES



Bowen & Co lith & col. Philada

1. EMPIDONAX HAMMONDI. 2. E. DIFFICILIS



BEAVER & CO. DEL. & CO.

1. SETOPHAGA MINIATA. 2. S. PICTA





Bowen & Co lith & col Philad

1. VIREO CASSINII 2. V. HUTTONII. 3. V. PHILADELPHICUS



Barnes & Co. lith. & col. Phila.

1. HELMINTHOPHAGA VIRGINIAE. 2. CPORORNIS AOLIS.

3. GEOTHTYPS PHILADELPHIA. 4. C. MACGILLIVRAYI.



Bowen & Co. lith. & col. Philada

1. SEIURUS NOVEBORACENSIS. 2. S. LUDOVICIANUS.



2/3

Bowen & Co. lith & col. Philada

1 TURDUS USTULATUS. 2. T. ALICIAE.



Bowen & Co. Lith & col. Philada.

TOXOSTOMA CRISSALIS.



Bowen & Co. lith. & col. Philade

1. CROTOPHAGA RUGIROSTRA. 2. C. ANI.



Board of Directors: _____

1 PICOIDES DORSALIS 2 PICUS GARDNERI, Male 3 Female.

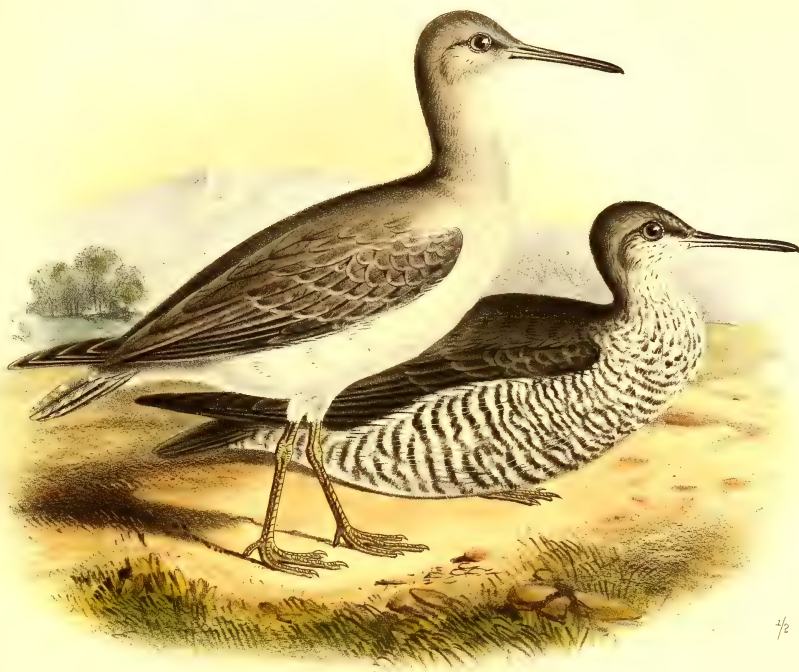


ARDEA WÜRDEMANNI



Illustrated by J. J. Audubon

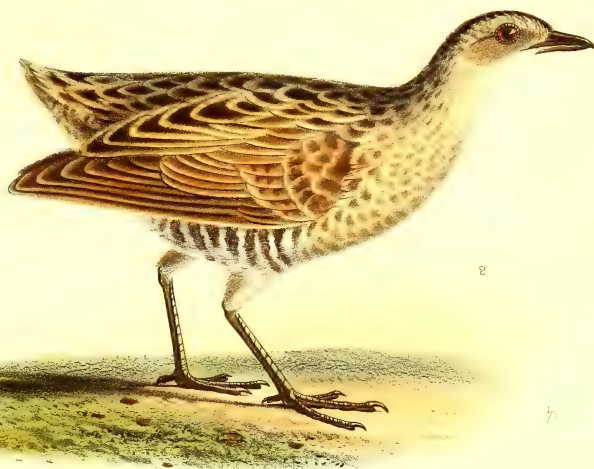
THRESIA ALAUDINA.



7/2

Bowen & Co. Lith. & col. Philad.

HETEROSCELUS BREVIPES.



Bowen & Co. Lith. & col. Philade.

1. TRINGA COOPERI. 2. CREX PRATENSIS



Bowen & Co. lith. & col. Philad.

AEGIALITIS NIVOSA. 1. Male, 2. Female.

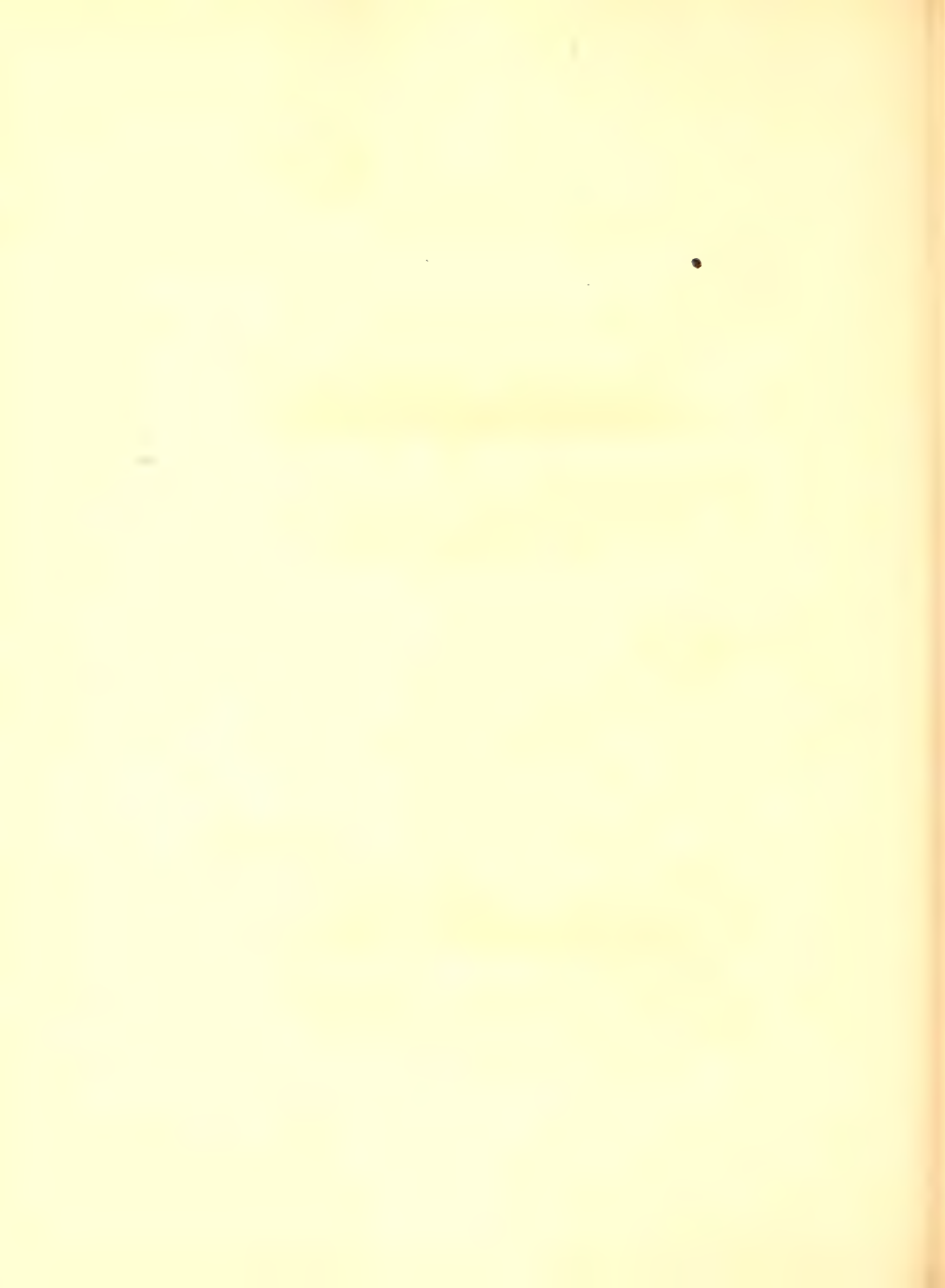


1. NETTION CRECCA. 2. MARECA PENELOPE.



ERISMATURA DOMINICA. 1. Male. 2. Female.







Bowen & Co. lith & col Philada.

1 CHROICOCEPHALUS CUCULLATUS. 2. C. FRANKLINII.



Bowen & Co. lith & col. Philada

STERNA ELEGANS



$\frac{1}{2}$

Bowen & Co. lith. & col. Philada.

STERNA PIKEI.



Bowen & Co lith & col. Philada

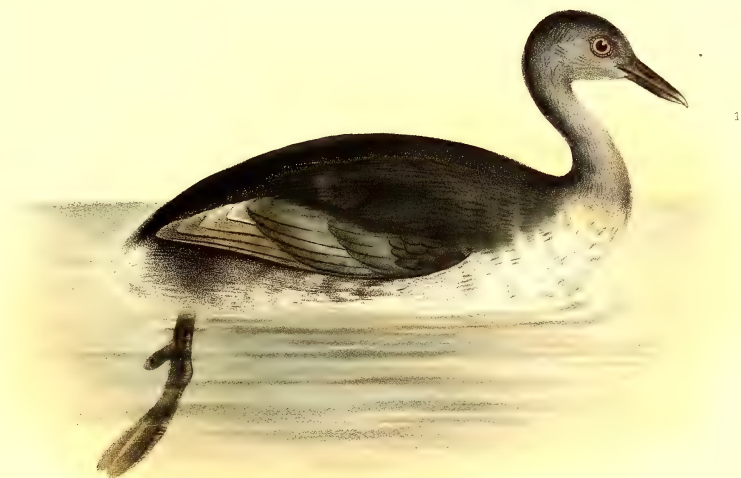
1. URIA COLUMBA. 2. U. GRYLLE.



ACTINUKITTA CINCTA



GRACULUS MEXICANUS.



Bower, & Co. lith. & col. Phila. ad.

1. PODICEPS DOMINICUS. 2. THALASSIDROMA MELANIA



Bowen & Co. lith. & col. Philada.

PODICEPS CLARKII.







